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(54) REWRITABLE RECORDING MEDIUM AND ITS RECORDING METHOD

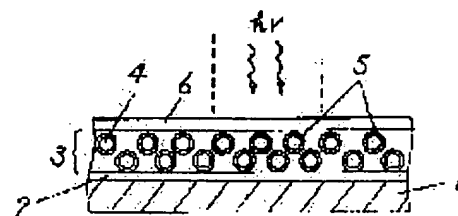
(57)Abstract:

PURPOSE: To provide a recording medium wherein a recording operation and an erasing operation can be performed reversibly by means of light or heat by a recording layer wherein the following are contained: coloring particles whose surface is provided with a crystal nucleus formation ability as crystalline organic molecules; crystalline organic molecules; and a transparent matrix polymer.

CONSTITUTION: A polyester sheet provided with an aluminum vapor-deposited reflection layer 2 is used as a substrate 1. The reflection layer 2 is coated to a thickness of $13\mu\text{m}$, with a liquid in which the following are dispersed and dissolved in tetrahydrofuran:

hydroxystearic acid as crystalline organic molecules; a phenol-based antioxidant as an additive; a vinyl chloride-vinyl acetate copolymer as a transparent matrix polymer; and red glass beads in an average of $15\mu\text{m}$ as coloring particles 4. Thereby, a recording layer 3 is formed. In

addition, a UV-curing acrylic resin is coated as a surface protective layer 6. The title recording medium becomes transparent at about 70 to 90°C, and its recording operation can be performed at 100°C by using a semiconductor laser. The recording durability of the recording medium amounts to about 600 times.



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